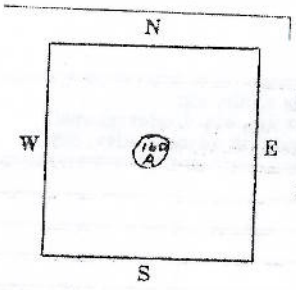
Osage Form No. 208



UNITED STATES
DEPARTMENT OF THE INTERIOR
INDIAN FIELD SERVICE
OSAGE AGENCY

FINAL REPORT OF COMPLETED OR DEEPENED WELLS

FOR LANDS COVERED BY DEPARTMENTAL LEASES 13

7-29-63 D

13

Specify Oil, Gas or Dry Water Input

This Report must be typewritten and filed within ten days after well is treated or producing natural.

Company Operating Phillips Petroleum Company Address Bartlesville, Oklahoma

Lessee PPCo. - North Burbank Unit Lessor OSAGE TRIBE

Well No. NBU 15-W21 SW/4¼ Sec. 11 T. 27N R. 5E K.B. 1132.02

Well located 890 Ft. From {N/S} Line and 565 Ft. From {E/W} Line Elevation, D.F. 1130.72

All meas f/RKB GL. 1124.52

Well drilled by Phillips Petroleum Company Superintendent R. W. O'Neill

Date commenced drilling 4-16-63, 19.... Finished 6-23-63, 19....

Date commenced deepening ....., 19.... Finished ....., 19....

Casing Used in Drilling			Casing Left in Hole				Casing Perforations	
Length	Size	Wt. per ft.	Thread	Length	Landed at	Cement	Shots	Interval
110 Ft.	8-5/8 Ins.	32 Lbs.	8V Per in.	R-1 Ft.	118 Ft.	105 Sks.	Holes, From	To
2997 Ft.	4-1/2 Ins.	9.5 Lbs.	8R Per in.	R-3 Ft.	3003 Ft.	75 Sks. w/30% Diacel D	Holes, From	To
Ft.	Ins.	Lbs.	Per in.	Ft.	Ft.	Sks.	Holes, From	To
Ft.	Ins.	Lbs.	Per in.	Ft.	Ft.	Sks.	Holes, From	To
Ft.	Ins.	Lbs.	Per in.	Ft.	Ft.	Sks.	Holes, From	To
Ft.	Ins.	Lbs.	Per in.	Ft.	Ft.	Sks.	Holes, From	To

What was done to protect sands when outside casing was pulled? Not pulled

Formation Treatment (Hydrafrac, Sandfrac, etc.)

Gal. Oil ..... Lbs. Sd. 125 Gal. Acid, From 3003' To 3061'

Gal. Oil ..... Lbs. Sd. ..... Gal. Acid, From ..... To .....

Gal. Oil ..... Lbs. Sd. ..... Gal. Acid, From ..... To .....

Shot ..... Qts., From ..... To .....

Is water completely shut off? Yes Amount water with oil ..... per cent. Is oil cut ..... Gravity ..... ° Baume

Oil Initial (Natural) ..... Bbls. ..... Hrs. ..... Choke

Oil Initial (After Treatment)* ..... Bbls. ..... Hrs. ..... Choke

*After Total Load Has Been Recovered

Tubing .....

Gas—Initial open flow sand from ..... ft. to ..... ft. Cu. ft. rock pressure ..... lbs. per sq. in.

..... Initial open flow sand from ..... ft. to ..... ft. Cu. ft. rock pressure ..... lbs. per sq. in.

Location fee paid Fee Land Date – Amount, $ –

(Sign here) R. W. O'Neill Your position with the lessee Area Supt.

Water Input

TD 3061

SW ¼ Sec. 11 T. 27N R. 5E

Well Number NBU 15-W21

FORMATION RECORD

FROM	TO	FEET	Note each change in formation, *i. e.*, sand, lime, shale, sandy shale, etc. Note character of each formation, *i. e.*, color, hard, soft, caving, etc. Underreamed? Note contents of each formation, *i. e.*, oil, gas, water, and kind of water—salty, etc.
Surface	1070	1070	Lime & shale
1070	1506	436	Shale & lime strks
1506	3061	1555	Lime, shale & sand
	3061		Total Depth
			Top Burbank Sand 2993'
			Bottom Burbank Sand 3058'

Osage Form 139

United States
Department of the Interior
Osage Indian Agency
Pawhuska, Oklahoma

Date: May 19, 2010

Application For the Operation or Report on Wells

North Burbnak Unit Tract 15

Fee Land

(Commencement money paid to whom) (Date) (Amount)

Well No.: W21 is located 890 Ft. from S line and 565 Ft. from W line

SW/4 Sec 11 27N 05E Osage County, Oklahoma

(¼ Sec. & Sec. No.) (Twp) (Range)

The elevation of the ground level above sea level is 1124.52 Ft.

OS #0205

Use This Side to Request Authority for Work

(Three Copies Required)

Notice of Intention To:

Drill..... ☐
Plug..... ☐
Deepen or plug back.. ☐
Convert..... ☐
Pull or alter casing..... ☒
Formation Treatment. ☐
.....

Details of Work

lling applications will state proposed TD & horizons to be tested. Show size & length of casings to be used. Indicate proposed mudding, cementing & other work.
Plugging applications shall set forth reasons for plugging & detailed statement of proposed work
Plugging will not commence until 10 days following approvalfate unless authority granted for earlier commencement.
A $15.00 plugging fee is also required with each application to plug.

0 Bbls oil 0 Bbls water in 24 hrs

This is a by rule water injection well. Chaparral plans to use this well to to also inject CO2 in a WAG EOR project. Will MIRU POOH w/ all current injection tbg & pkr. Set CIBP @ 2980' in 4½" csg. Perf 4½" from CIBP to 500 feet above it. Part 4½ @ 500' & POOH. RIH w/ 4½" retainer & set above bottom perfs & sqz Class A cement behind 4½". WOC, drill out retainer & cmt to CIBP. RIH w/3½" 9.5# slim line csg w/bottom 200' chrome lined for CO2 service. Cement 3½" to surf & sqz cmt behind surface csg if possible. **(OVER)**

I understand that this plan of work must receive approval in writing of the Osage Indian Agency before operations may be commenced.

Lessee: Chaparral Energy, L.L.C.

Signature: David P. Spencer

David P. Spencer

Title: Manager of Regulatory Affairs

Address: 701 Cedar Lake Blvd., Oklahoma City, Oklahoma 73114

Use This Side To Report Completed Work

(One Copy Required)

Character of Well (oil, gas or dry) _____

Subsequent Report of:

Conversion..... ☐
Formation Treatment. ☐
Altering casing..... ☐
Plugging Back..... ☐
Plugging..... ☐

Details of Work & Results Obtained

Work commenced: _____

Work completed: _____

(Continue on reverse if necessary)

This block for plugging information only

Casing Record

Size	In Hole When Started	Amt. Recovered	If Pulled Depth	How

Original TD _____

Lessee:

By: _____

Subscribed and sworn to before me this _____ day of _____, 2010.

Jane A. Kitchens #10000641 Notary Public My Commission Expires January 29, 2014

WOC. Drill out cmt, plug & CIBP to open well to injection into Burbank formation. Run CBL. RIH w 3½" X 2-3/8" Arrowset 1X packer & ceramic coated 2½" tbg to end ot 3½" csg. MIT wellbore for Water and CO2 injection & wait on EPA permit for CO2 injection. Re-establish water injection until then.